

09/957483
STN Search Summary

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FILE 'CAPLUS' ENTERED AT 16:16:16 ON 19 MAR 2004

L1 56 S EPOTHILONE (P) (PURIF? OR ISOLAT?)
L2 5 S L1 AND (RESIN OR CHROMATOGRAPHY)
L3 2 S EPOTHILONE AND RESIN AND METHANOL
L4 100 S EPOTHILONE (2W) D
L5 8 S L4 AND (CRYSTAL?)
L6 1 S L5 AND WATER
L7 3 S XANTHUS AND OLEATE

L2 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:995507 CAPLUS

TI Method for separating and purifying epothilone from
the ferment liquor of Myxobacteria

IN Hu, Wei; Li, Yuezhong; Liu, Xinli; Han, Guanjun
SO Faming Zhanli Shenqing Gongkai Shuomingshu, 19 pp.

LA Chinese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1369484	A	20020918	CN 2002-110067	20020207
PRAI	CN 2002-110067		20020207		

L2 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:449686 CAPLUS

TI Process for the isolation and purification of
epothilones

IN Kuesters, Ernst; Unternaehrer, Heinz
SO PCT Int. Appl., 27 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002046196	A1	20020613	WO 2001-EP14771	20011205
	AU 2002024936	A5	20020618	AU 2002-24936	20011205
	EP 1345944	A1	20030924	EP 2001-994791	20011205
	BR 2001015991	A	20040113	BR 2001-15991	20011205
	NO 2003002591	A	20030606	NO 2003-2591	20030606
	US 2004054188	A1	20040318	US 2003-433808	20030606
PRAI	GB 2000-29895	A	20001207		
	WO 2001-EP14771	W	20011205		

L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:330310 CAPLUS

TI Synthesis of epothilones A and B in solid and solution phase
AU Nicolaou, K. C.; Winssinger, N.; Pastor, J.; Ninkovic, S.; Sarabia, F.;
He, Y.; Vourloumis, D.; Yang, Z.; Li, T.; Giannakakou, P.; Hamel, E.
SO Nature (London) (1997), 387(6630), 268-272

L2 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:473443 CAPLUS

TI Antibiotics from gliding bacteria. 77. Epothilone A and B -
novel 16-membered macrolides with cytotoxic activity: isolation,
crystal structure, and conformation in solution
AU Hoefle, Gerhard; Bedorf, Norbert; Steinmetz, Heinrich; Schomburg, Dietmar;
Gerth, Klaus; Reichenbach, Hans
SO Angewandte Chemie, International Edition in English (1996), 35(13/14),

1567-1569

=> d kwic 3-5

L2 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Process for the isolation and purification of
epothilones
AB The invention relates to a desorption process for epothilones,
esp. epothilone A and/or epothilone B, from
resins and new prodn., work-up or purifn. processes or
manufg. methods for epothilones comprising said desorption
process, as well as the use of certain solvents for the desorption of
epothilones from resins.
ST epothilone purifn resin column
IT 71-43-2, Benzene, processes 91-20-3, Naphthalene, processes 108-88-3,
Toluene, processes 55353-13-4, Diaion HP 20 104219-63-8, Amberlite
XAD-16
RL: CPS (Chemical process); PEP (Physical, engineering or chemical
process); PROC (Process)
(process for the isolation and purifn. of
epothilones)
IT 152044-53-6P, Epothilone A 152044-54-7P, Epothilone
B
RL: CPS (Chemical process); PEP (Physical, engineering or chemical
process); PUR (Purification or recovery); PREP (Preparation); PROC
(Process)
(process for the isolation and purifn. of
epothilones)
L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
AB Epothilones A (I; R = H) and B (I: R = Me), two compds. that
were recently isolated from myxobacterium Sorangium cellulosum
strain 90, have generated intense interest among chemists, biologists and
clinicians owing to the structural complexity, . . . even in
taxol-resistant cell lines. Following the structural elucidation of these
mols. by X-ray crystallog. in 1996, several synthesis of
epothilones A and B have been reported, indicative of the
potential importance of these mols. in the cancer field. Here we report
the first solid-phase synthesis of epothilone A, the total
synthesis of epothilone B, and the generation of a small
epothilone library. The solid-phase synthesis applied here to
epothilone A could open up new possibilities in natural-product
synthesis and, together with soln.-phase synthesis of other
epothilones, paves the way for the generation of large
combinatorial libraries of these important mols. for biol. screening.
IT 84457-52-3DP, Merrifield resin-bound 187283-49-4P
187283-52-9P 188260-10-8P 189453-35-8P 189453-40-5P 190369-71-2DP,
Merrifield resin-bound 190369-73-4DP, Merrifield resin
-bound 190369-77-8DP, Merrifield resin-bound 190369-79-0DP,
Merrifield resin-bound 190369-80-3DP, Merrifield resin
-bound 190369-82-5P 190369-85-8P 190369-96-1P 190370-02-6P
190370-04-8P 190370-06-0P 190370-08-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prep. of a combinatorial library via solid-phase synthesis of
epothilone A and soln.-phase synthesis of epothilone B)

L2 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Antibiotics from gliding bacteria. 77. Epothilone A and B -
 novel 16-membered macrolides with cytotoxic activity: isolation,
 crystal structure, and conformation in solution
 AB Epothilones A and B (I and II, resp.), macrolide antibiotics
 with antifungal and cytotoxic activity, were isolated from
 Sorangium cellulosum ext. by chromatog. methods and crystd. The
 crystal structure, abs. configuration, and soln. conformation of the
 epothilones are reported.
 ST epothilone A B isolation structure Sorangium;
 conformation epothilone A B Sorangium; crystal structure
 epothilone A B Sorangium
 IT Sorangium cellulosum
 (isolation and structure of epothilones A and B of)
 IT 152044-53-6P, Epothilone A 152044-54-7P, Epothilone
 B
 RL: PRP (Properties); PUR (Purification or recovery); PREP (Preparation)
 (isolation, crystal structure, and soln. conformation of
 epothilones A and B of Sorangium cellulosum)

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:144255 CAPLUS
 DN 136:324108
 TI Large-Scale Isolation and Crystallization of Epothilone
 D From Myxococcus xanthus Cultures
 AU Arslanian, Robert L.; Parker, Charles D.; Wang, Peter K.; McIntire, James
 R.; Lau, Janice; Starks, Courtney; Licari, Peter J.
 SO Journal of Natural Products (2002), 65(4), 570-572

L5 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:816957 CAPLUS
 TI Production of polyketides
 IN Arslanian, Robert L.; Ashley, Gary; Frykman, Scott; Julien, Bryan; Katz,
 Leonard; Khosla, Chaitan; Lau, Janice; Licardi, Peter J.; Regentin, Rika;
 Santi, Daniel; Tang, Li
 SO PCT Int. Appl., 221 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001083800	A2	20011108	WO 2001-US13793	20010426
	WO 2001083800	C1	20030103		
	WO 2001083800	A3	20030410		
	WO 2001083800	C2	20030912		
	US 6410301	B1	20020625	US 2000-560367	20000428
	US 2002156110	A1	20021024	US 2001-825876	20010403
	US 6589968	B2	20030708		
	US 6489314	B1	20021203	US 2001-825856	20010403
	US 2002193361	A1	20021219		
	AU 2001095195	A5	20011112	AU 2001-95195	20010426
	EP 1320611	A2	20030625	EP 2001-973782	20010426
	US 2003073205	A1	20030417	US 2001-957483	20010919
PRAI	US 2000-560367	A	20000428		
	US 2000-232696P	P	20000914		
	US 2000-257517P	P	20001221		
	US 2001-269020P	P	20010213		
	US 2001-825856	A	20010403		
	US 2001-825876	A	20010403		

US 1998-109401P P 19981120
US 1999-119386P P 19990210
US 1999-122620P P 19990303
US 1999-130560P P 19990422
US 1999-443501 A2 19991119
WO 1999-US27438 A2 19991119
WO 2001-US13793 W 20010426
OS MARPAT 135:343416

L5 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:597944 CAPLUS
DN 133:321737
TI A Novel Application of a Pd(0)-Catalyzed Nucleophilic Substitution Reaction to the Regio- and Stereoselective Synthesis of Lactam Analogues of the Epothilone Natural Products
AU Borzilleri, Robert M.; Zheng, Xiaoping; Schmidt, Robert J.; Johnson, James A.; Kim, Soong-Hoon; DiMarco, John D.; Fairchild, Craig R.; Gougoutas, Jack Z.; Lee, Francis Y. F.; Long, Byron H.; Vite, Gregory D.
SO Journal of the American Chemical Society (2000), 122(37), 8890-8897

L5 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:273850 CAPLUS
TI Synthesis, Structure Proof, and Biological Activity of Epothilone Cyclopropanes
AU Johnson, James; Kim, Soong-Hoon; Bifano, Marc; DiMarco, John; Fairchild, Craig; Gougoutas, Jack; Lee, Francis; Long, Byron; Tokarski, John; Vite, Gregory
SO Organic Letters (2000), 2(11), 1537-1540

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:174509 CAPLUS
TI Preparation of epothilone derivatives for treatment of diseases or conditions characterized by cellular hyperproliferation, such as cancer
IN Ashley, Gary; Arslanian, Robert L.; Carney, John; Metcalf, Brian; Tang, Li
SO U.S. Pat. Appl. Publ., 54 pp., Cont.-in-part of U.S. Ser. No. 825,856.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2003045711	A1	20030306	US 2002-115198	20020402
US 2002156110	A1	20021024	US 2001-825876	20010403
US 6589968	B2	20030708		
US 6489314	B1	20021203	US 2001-825856	20010403
US 2002193361	A1	20021219		
PRAI US 2001-269020P	P	20010213		
US 2001-825856	A2	20010403		
US 2001-825876	A2	20010403		

OS MARPAT 138:221394

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:370405 CAPLUS
TI Optimizing the heterologous production of epothilone D in Myxococcus xanthus
AU Lau, Janice; Frykman, Scott; Regentin, Rika; Ou, Sally; Tsuruta, Hiroko; Licari, Peter
SO Biotechnology and Bioengineering (2002), 78(3), 280-288

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:816957 CAPLUS

TI Production of polyketides
 IN Arslanian, Robert L.; Ashley, Gary; Frykman, Scott; Julien, Bryan; Katz, Leonard; Khosla, Chaitan; Lau, Janice; Licardi, Peter J.; Regentin, Rika; Santi, Daniel; Tang, Li
 SO PCT Int. Appl., 221 pp.
 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI WO 2001083800 A2 20011108 WO 2001-US13793 20010426
 WO 2001083800 C1 20030103
 WO 2001083800 A3 20030410
 WO 2001083800 C2 20030912
 US 6410301 B1 20020625 US 2000-560367 20000428
 US 2002156110 A1 20021024 US 2001-825876 20010403
 US 6589968 B2 20030708
 US 6489314 B1 20021203 US 2001-825856 20010403
 US 2002193361 A1 20021219
 AU 2001095195 A5 20011112 AU 2001-95195 20010426
 EP 1320611 A2 20030625 EP 2001-973782 20010426
 US 2003073205 A1 20030417 US 2001-957483 20010919
 PRAI US 2000-560367 A 20000428
 US 2000-232696P P 20000914
 US 2000-257517P P 20001221
 US 2001-269020P P 20010213
 US 2001-825856 A 20010403
 US 2001-825876 A 20010403
 US 1998-109401P P 19981120
 US 1999-119386P P 19990210
 US 1999-122620P P 19990303
 US 1999-130560P P 19990422
 US 1999-443501 A2 19991119
 WO 1999-US27438 A2 19991119
 WO 2001-US13793 W 20010426
 OS MARPAT 135:343416

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<input type="checkbox"/>	L10	xanthus and (methyl adj oleate)	6
<input type="checkbox"/>	L9	xanthus same oleate	5
<input type="checkbox"/>	L8	xanthus and oleate	36
<input type="checkbox"/>	L7	L6 and (crystal\$ adj20 water)	13
<input type="checkbox"/>	L6	l1 and crystal\$	112
<input type="checkbox"/>	L5	l1 and crystal\$	112
<input type="checkbox"/>	L4	L3 and (resin adj20 methanol)	9
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<input type="checkbox"/>	L2	L1 and resin	47
<input type="checkbox"/>	L1	epothilone same (purif\$ or isolat\$)	167

END OF SEARCH HISTORY